

Claims

1. Process for the production of fludarabine-phosphate lithium, sodium, potassium, calcium and magnesium salts, whereby fludarabine-phosphate is dissolved in water, an alkali or alkaline-earth basic solution is added to this solution while being stirred and at temperatures of below 30°C, and this solution is slowly poured into acetone that is 45-55°C, cooled, and the deposited precipitate is optionally filtered and optionally dried.

2. Process for the production of fludarabine-phosphate, whereby the lithium, sodium, potassium, calcium and magnesium salts are produced according to claim 1 and then are released with mineral acid.

3. Process for the production of fludarabine-phosphate, whereby the lithium, sodium, potassium, calcium and magnesium salts are produced in a form that is more stable in storage according to claim 1 and then are released with mineral acid.

4. Process for the purification of fludarabine-phosphate, whereby crude fludarabine-phosphate is dissolved in water, an alkali or alkaline-earth basic solution is added to this solution while being stirred and at temperatures of below 30°C, and this solution is slowly poured into acetone that is 45-55°C, cooled, and the deposited precipitate is filtered and optionally dried and is obtained in a form that is stable in storage as a lithium, sodium, potassium, calcium or magnesium salt, and then this form that is stable in storage is dissolved in water and acidified

with mineral acid, and the deposited precipitate is filtered and dried.

5. Fludarabine-phosphate with a purity of at least 99.5%.

6. Fludarabine-phosphate ^{of claim 5} with a purity of greater than 99.55%.

7. Fludarabine-phosphate ^{of claim 5} with a purity of greater than 99.6%.

8. Fludarabine-phosphate ^{of claim 5} with a purity of greater than 99.7%.

9. Fludarabine-phosphate ^{of claim 5} with a purity of greater than 99.8%.

10. Fludarabine-phosphate ^{of claim 5} with a purity of greater than 99.85%.

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